# PRODUCT INFORMATION PACKET



Model No: TCA0041AE251GAA009

Catalog No: R924

TerraMAX® Cast Iron Motor, 5.50 & 4 HP, 3 Ph, 60 & 50 Hz, 230/460 & 200/400 V, 3600 & 3000 RPM,

112M Frame, TEFC





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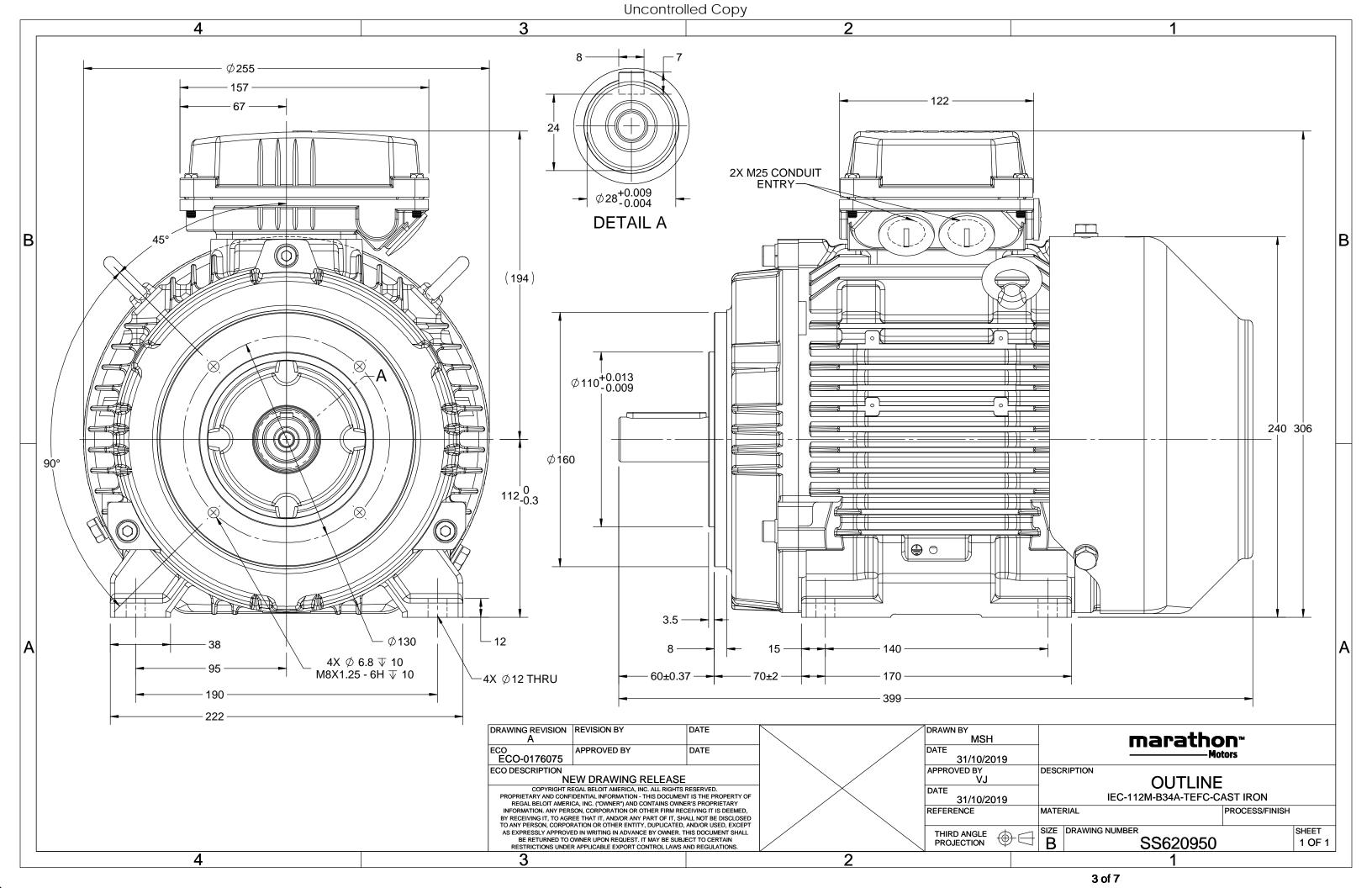
### Nameplate Specifications

Phase	3	Output HP	5.50 & 4 Hp			
Output KW	4.0 & 3.0 kW	Voltage	230/460 & 200/400 V			
Speed	3520 & 2940 rpm	Service Factor	1.15 & 1.15			
Frame	112M	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	89.5 & 87.1 %			
Ambient Temperature	40 °C	Frequency	60 & 50 Hz			
Current	12.4/6.2 & 11.2/5.6 A	Power Factor	91			
Duty	Continuous	Insulation Class	F			
Design Code	N (IEC)	KVA Code	J			
Drive End Bearing Size	6306	Opp Drive End Bearing Size	6206			
UL	Recognized	CSA	N			
CE	Υ	IP Code	55			
Number of Speeds	1	Efficiency Class	IE3			

## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter			
Poles	2	Rotation	Reversible			
Resistance Main	3.17 Ohms	Mounting	В3			
Motor Orientation	Horizontal	Drive End Bearing	Ball			
Opp Drive End Bearing	Ball	Frame Material	Cast Iron			
Shaft Type	IEC	Shaft Diameter	28.000 in			
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 2:1/VARIABLE 10:1			
Connection Drawing	8442000730	Outline Drawing	SS620950			

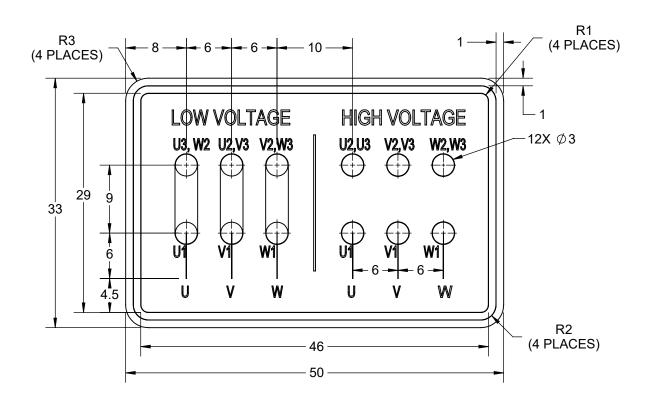
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DRAWING REVISION	DEVISION DV	REV DATE/© DATE
DRAWING REVISION		
l A	LK	14/7/2021
ECO	APPROVED BY	DATE
CR-0003544	JAY	14/7/2021
ECO DESCRIPTION	1	L
	NEW DRAWING	

GEOMENTRIC TOLERANCE							
	>0~6	±0.1					
LINEAR DIM	>6~30	±0.2					
	>30~120	±0.3					



#### NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY 3. THE TABLE.
- LEAD TERMINAL MARKINGS FONT SIZE: U1-U3, V1-V3 AND W1-W3 OF ARIAL WITH 3mm SIZE 4.
- 5. OTHER LETTER FONT SIZE SHOULD BE 3.5mm.

PRIMARY DIMENSIONS ARE mm INCH DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY	DRAWN BY LK DATE 14/7/2021	REGAL® Regal Beloit America, Inc.				
	APPROVED BY JAY  DATE 14/7/2021	DESCRIPTION CONN DIAGRAM-NAMEPLATE 9LEADS - DELTA CONNECTION				
	REFERENCE	MATERIAL REFER NOTES PROCESS/FINISH				
	THIRD ANGLE PROJECTION	A B442000730	SHEET 1 OF 1			







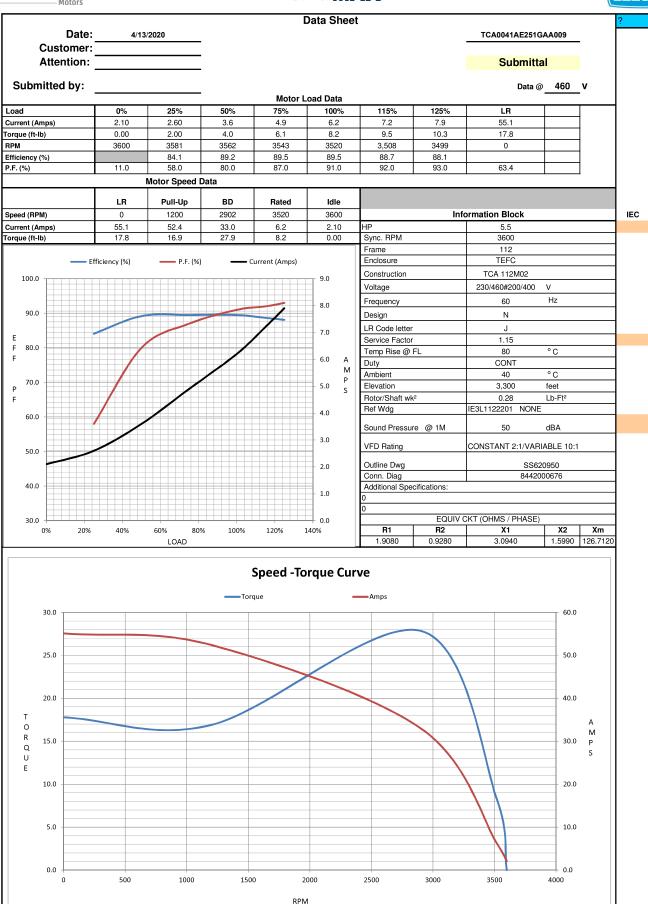
									P.O. BOX 8003			
									WAUSAU, WI 544	101-8003		
									PH. 715-675-331			
									FII. 713-073-331	'		
									DATA VOLTS:	460		
					CEI	RTIFICATION DATA SI	HEET					
					OLI	THE ICATION DATA SI						
	_											
CUSTOME				_				OMER P.O. #:				
ORDER #:							REFEREN	CE MODEL #:	TCA0041AE251G	AA009		
CONN. DIA	AGRAM:	8442000676						CAT #:	F	R924		=
OUTLINE:		SS620950					CUSTO	MER PART #:				
WINDING:		IE3L1122201	NONE	1				MOUNTING:	E3			
		ILSE 1122201	NONE	į.				MODIVING.	13			
SPEED:		_										
				T'	YPICAL	. MOTOR PERFORMA	NCE DA	ΛTA				
HP	KW	SYNC RPM	FL	. RPM		FRAME	ENC	LOSURE	TYPE	KVA CO	DDE	DESIGN
5.5	4.1	3600	3	3520		112M	T	EFC	TCA 112MA02	J		N
PH	HZ	VOLTS	Α	MPS		START TYPE	0	UTY	INSL	S.F.	AMB (° C)	ELEV.(Ft.)
3	60/50	230/460#200/400	12 4/6	2&11.2/5.6		LINE OR INVERTER	C	ONT	F	1.15	40	3300
_ <u> </u>	00/00	200/100//200/100	12. 170.	EGTT.E/O.O		ENTE ON NAVENTEN				1.10		0000
									1			
	F.L. EFF		3/4 LD EFF	89.5		1/2 LD EFF	89.2	GTD EFF		ELECT. T		
	F.L. PF	91.0	3/4 LD PF	87.0		1/2 LD PF	80.0	87.9		SQ CAGE INV	RATED	
F.L	TORQUE	LR AMPS @	460 V		L.R.	TORQUE		B.D. TOR	QUE	F.L. RISE	(° C)	
	LB-FT	55.1		17.8	LB-FT	217%	27.9	LB-FT	340%	80	1	
0.2	LD-I I	55.1		17.0	LD-1 1	21170	21.5	LD-1 1	34070	00		
COLIND I	PRESSURE @ 3								1			
SOUND	FT.	SOUND POWER	BOT.	OR WK²		MAX. LOAD WK <sup>2</sup>	CAEEC	TALL TIME	OT AD	rs/Hour	APROX.	MOTOR WGT
				LB-FT <sup>2</sup>	0.28	LB-FT <sup>2</sup>			STAR			
68	dBA	77 <b>dBA</b>	0.28	LB-F1-	0.28	LB-F1	7	SEC.		2	54	KG.
			`									
					*** SU	PPLEMENTAL INFORMA						
			MOUNT					ARDOUS				
	ACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIEI		SEVERE DUTY		CATION	DRIP COVER	SCREENS		INT
FT-F	LANGE-130	STANDARD	B3	HORIZON	ITAL	NO	N	IONE	NO	NONE	BLUE (E	ENAMEL)
		•	•									•
BI	EARINGS											
DE .	ODE	GREASE	SHA	FT TYPE		SPECIAL DE	SPEC	IAL ODE	SHAFT	MATERIAL	FRAME	MATERIAL
BALL			<u> </u>									
	BALL	POLYREX EM	STANI	DARD IEC		NONE	N	IONE	1045 HOT F	OLLED (C-204)	CAST	IRON
6306	6206									. , ,		
											SPACE	HEATERS
THE	RMOSTATS	PROTECTORS	WDG	G RTD's		BRG RTD's	THER	MISTORS	co	NTROL	SPACE	HEATERS
	NONE	NOT		ONE		NONE		IONE		ALSE		NA .
			<u> </u>	0.112		110112				1202		
D4	(ohms/ph)	R2 (ohms/ph)	V4 (-	hms/ph)		X2 (ohms/ph)	V /-	ohms/ph)	VIDDAT	ION (in/sec)		OAT
R1												
	1.908	0.928	] 3	.094		1.599	12	6.712		.150	0	DE
*												
N								INV	ERTER TORQUE:	CONSTANT 2:1/VAF	RIABLE 10:1	
Ö				INV. HP SPEED RANGE: NONE								
Т												
E								ENCODER:	NONE			
s							NONE					
*								NONE			NONE	PPR
1									NONE			
1	PDFD ADFD DV						BRAKE: NONE  NONE  NONE  NONE					
1	PREPARED BY:								NONE		L	
1	DATE:	11/2//2020						FT-LB:		NA		
1						<u> </u>		VOLTAGE:		ONE		HZ:
FORM: 35	M: 3531 REV_4 2/27/06						UL: V - LI,ME-INS,CONST UL REC					











REGAL



# **EC Declaration of Conformity**

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401 and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No: TCA0041AE251GAA009

(Model No. may contain prefix and/or suffix characters)

Catalog No : R924

Rework No : N/A

#### Directives:

Low Voltage Directive 2014/35/EU

### Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

**Authorized Representative:** 

J. Clus

Authorized Representative in the Community:

Michael A. Logsdon Vice President, Technology

vice Fresident, recimology

Created on 09/01/2022

Julian Clark Marketing Engineer